

Name _____

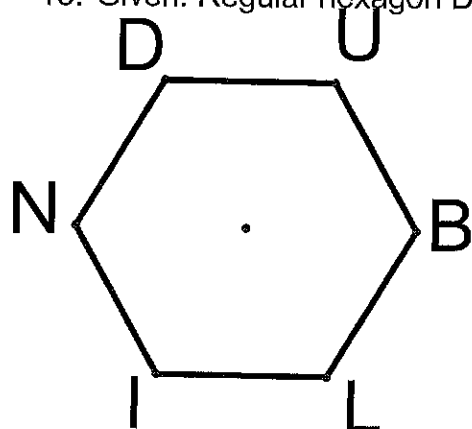
Date _____

Complete the charts using the special right triangle patterns.

	30°	60°	90°
1.	x		
2.	4		
3.		$7\sqrt{3}$	
4.			16
5.			$2\sqrt{5}$
6.		$\sqrt{30}$	

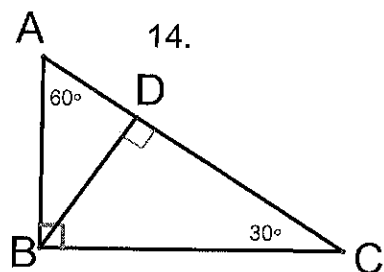
	45°	45°	90°
7.	x		
8.	3		
9.		5	
10.			$\sqrt{288}$
11.	$3\sqrt{3}$		
12.			$\sqrt{12}$

13. Given: Regular hexagon DUBLIN



UB = 10. Find UL.

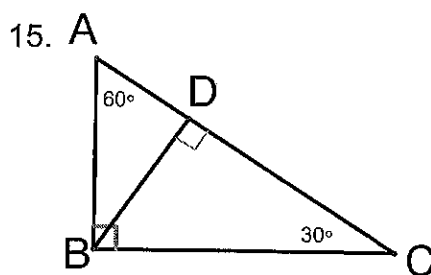
HINT: Draw UL, $m\angle B = 120^\circ$, what kind of triangle is $\triangle UBL$?



14.
 $BD = 6\sqrt{3}$

$AB = \underline{\hspace{2cm}}$

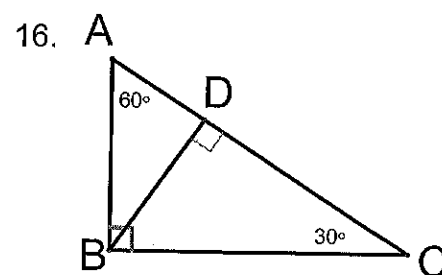
$BC = \underline{\hspace{2cm}}$



15.
 $BC = 9$

$DB = \underline{\hspace{2cm}}$

$AC = \underline{\hspace{2cm}}$



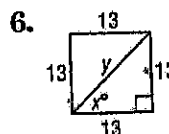
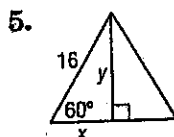
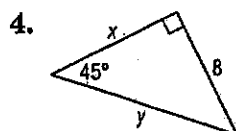
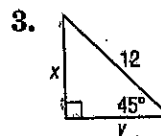
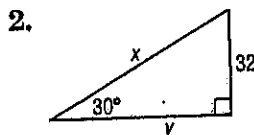
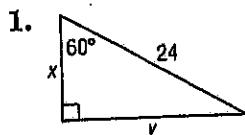
16.
 $CD = 12\sqrt{3}$

$AB = \underline{\hspace{2cm}}$

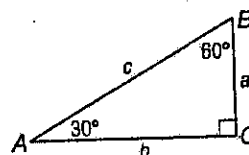
7-3

Skills Practice

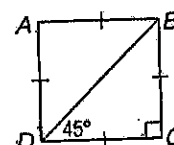
Special Right Triangles

Find x and y .

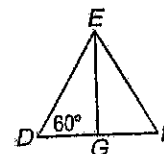
For Exercises 7-9, use the figure at the right.

7. If $a = 11$, find b and c .8. If $b = 15$, find a and c .9. If $c = 9$, find a and b .

For Exercises 10 and 11, use the figure at the right.

10. The perimeter of the square is 30 inches. Find the length of \overline{BC} .11. Find the length of the diagonal \overline{BD} .

12. The perimeter of the equilateral triangle is 60 meters. Find the length of an altitude.



13. $\triangle GEC$ is a 30° - 60° - 90° triangle with right angle at E , and \overline{EC} is the longer leg. Find the coordinates of G in Quadrant I for $E(1, 1)$ and $C(4, 1)$.